

Title (en)

METHOD TO AUTOMATICALLY CONTROL A DRIVETRAIN PROVIDED WITH A SERVO-ASSISTED TRANSMISSION

Title (de)

VERFAHREN ZUR AUTOMATISCHEN STEUERUNG EINES SERVO-UNTERSTÜTZTEN GETRIEBES

Title (fr)

PROCÉDÉ DE COMMANDE AUTOMATIQUE D'UNE CHAÎNE CINÉMATIQUE ÉQUIPÉE D'UNE TRANSMISSION SERVO-ASSISTÉE

Publication

EP 3798472 A1 20210331 (EN)

Application

EP 20199363 A 20200930

Priority

IT 201900017519 A 20190930

Abstract (en)

A method to automatically control a drivetrain (6) provided with a servo-assisted transmission (7); the method comprises the steps of: measuring a rotation speed (ω_{E}) of the internal combustion engine (4); carrying out a shift to a lower gear in an autonomous manner and independently of an intervention of a driver, when the rotation speed (ω_{E}) of the internal combustion engine (4) reaches a lower threshold (TH_{DOWN}); carrying out a shift to a higher gear in an autonomous manner and independently of an intervention of the driver, when the rotation speed (ω_{E}) of the internal combustion engine (4) reaches an upper threshold (TH_{UP}); detecting a release of an accelerator pedal (22) in a first instant (t_1); waiting, starting from the first instant (t_1), a time interval (TO) until a second instant (t_2), which is subsequent to the first instant (t_1); and increasing a value of the lower threshold (TH_{DOWN}) starting from the instant (t_2) until a following pressing of the accelerator pedal (22).

IPC 8 full level

F16H 59/18 (2006.01); **F16H 61/02** (2006.01); **F16H 59/36** (2006.01); **F16H 59/54** (2006.01); **F16H 61/688** (2006.01)

CPC (source: CN EP US)

B60W 10/06 (2013.01 - CN); **B60W 10/113** (2013.01 - CN); **B60W 30/182** (2013.01 - CN); **F16H 59/18** (2013.01 - EP); **F16H 59/22** (2013.01 - US); **F16H 59/36** (2013.01 - US); **F16H 59/54** (2013.01 - US); **F16H 61/0213** (2013.01 - CN EP US); **B60W 2510/0638** (2013.01 - CN); **B60W 2540/10** (2013.01 - CN); **B60W 2540/12** (2013.01 - CN); **F16H 59/54** (2013.01 - EP); **F16H 61/688** (2013.01 - EP); **F16H 2059/366** (2013.01 - EP US); **F16H 2061/0216** (2013.01 - CN); **F16H 2061/0223** (2013.01 - EP); **F16H 2200/0056** (2013.01 - EP)

Citation (applicant)

US 8406968 B2 20130326 - HUBER KARL [AT], et al

Citation (search report)

- [A] US 8406968 B2 20130326 - HUBER KARL [AT], et al
- [A] US 2019249768 A1 20190815 - KISHI DAIGO [JP]
- [A] US 10190684 B2 20190129 - VU DAVID H [US], et al

Designated contracting state (EPC)

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Designated extension state (EPC)

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EP 3798472 A1 20210331; **EP 3798472 B1 20220720**; CN 112576739 A 20210330; CN 112576739 B 20231201; IT 201900017519 A1 20210330; JP 2021055841 A 20210408; US 11215279 B2 20220104; US 2021095760 A1 20210401

DOCDB simple family (application)

EP 20199363 A 20200930; CN 202011030274 A 20200927; IT 201900017519 A 20190930; JP 2020158633 A 20200923; US 202017017242 A 20200910